Petr Hajek

List of Publications by Year
in descending order

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105	2,299	257101	253896
papers	citations	24	43
		h-index	g-index

108	108	108	1486
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Product backorder prediction using deep neural network on imbalanced data. International Journal of Production Research, 2023, 61, 302-319.	4.9	39
2	Combining weighted SMOTE with ensemble learning for the class-imbalanced prediction of small business credit risk. Complex & Intelligent Systems, 2023, 9, 3559-3579.	4.0	19
3	Mining behavioural and sentiment-dependent linguistic patterns from restaurant reviews for fake review detection. Technological Forecasting and Social Change, 2022, 177, 121532.	6.2	10
4	A Systematic Review of Blockchain Applications. IEEE Access, 2022, 10, 59155-59177.	2.6	31
5	Speech Emotion Recognition fromÂEarnings Conference Calls inÂPredicting Corporate Financial Distress. IFIP Advances in Information and Communication Technology, 2022, , 216-228.	0.5	2
6	Neural intuitionistic fuzzy system with justified granularity. Neural Computing and Applications, 2022, 34, 19423-19439.	3.2	4
7	A novel methodology for surveying children for designing library services: A case study of the Municipal Library of Prague. Journal of Librarianship and Information Science, 2021, 53, 307-320.	1.6	2
8	Tax Default Prediction Using Feature Transformation-Based Machine Learning. IEEE Access, 2021, 9, 19864-19881.	2.6	27
9	Intuitionistic Fuzzy Neural Network for Time Series Forecasting - The Case of Metal Prices. IFIP Advances in Information and Communication Technology, 2021, , 411-422.	0.5	1
10	Neural Networks with Emotion Associations, Topic Modeling and Supervised Term Weighting for Sentiment Analysis. International Journal of Neural Systems, 2021, 31, 2150013.	3.2	14
11	The role of library user preferences in the willingness to read and pay for e-books: case of the Czech Republic. Electronic Library, 2021, 39, 639-660.	0.8	5
12	Configuration Paths to Efficient National Innovation Ecosystems. Technological Forecasting and Social Change, 2021, 168, 120787.	6.2	26
13	Deep learning-based exchange rate prediction during the COVID-19 pandemic. Annals of Operations Research, 2021, , 1-52.	2.6	43
14	Detecting Fake Online Reviews using Fine-tuned BERT. , 2021, , .		1
15	The Role of Smart Economy in Developing Smart Cities. , 2021, , .		5
16	Spam detection on social networks using cost-sensitive feature selection and ensemble-based regularized deep neural networks. Neural Computing and Applications, 2020, 32, 4239-4257.	3.2	42
17	IVIFCM-TOPSIS for Bank Credit RiskÂAssessment. Smart Innovation, Systems and Technologies, 2020, , 99-108.	0.5	4
18	Interactions among energy consumption, CO₂, and economic development in European Union countries. Sustainable Development, 2020, 28, 723-740.	6.9	46

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19	Municipal waste generation, R&D intensity, and economic growth nexus â€“ A case of EU regions. Waste Management, 2020, 114, 124-135.	3.7	54
20	An Optimized Hybrid Forecasting Model and Its Application to Air Pollution Concentration. Arabian Journal for Science and Engineering, 2020, 45, 9953-9975.	1.7	3
21	Intuitionistic fuzzy grey cognitive maps for forecasting interval-valued time series. Neurocomputing, 2020, 400, 173-185.	3.5	26
22	A Profit Function-Maximizing Inventory Backorder Prediction System Using Big Data Analytics. IEEE Access, 2020, 8, 58982-58994.	2.6	35
23	Effect of GDP, Energy Consumption, and Material Consumption on Waste Generation: The Case of EU-28 Countries. Eurasian Studies in Business and Economics, 2020, , 73-85.	0.2	2
24	Opinion Mining of Consumer Reviews Using Deep Neural Networks with Word-Sentiment Associations. IFIP Advances in Information and Communication Technology, 2020, , 419-429.	0.5	6
25	Modelling Loss Given Default in Peer-to-Peer Lending Using Random Forests. Smart Innovation, Systems and Technologies, 2020, , 133-141.	0.5	3
26	Fake consumer review detection using deep neural networks integrating word embeddings and emotion mining. Neural Computing and Applications, 2020, 32, 17259-17274.	3.2	88
27	MINING RISK-RELATED SENTIMENT IN CORPORATE ANNUAL REPORTS AND ITS EFFECT ON FINANCIAL PERFORMANCE. Technological and Economic Development of Economy, 2020, 26, 1422-1443.	2.3	13
28	Innovation Environment in Europeâ€"Efficiency Analysis Case Study. Springer Series in Reliability Engineering, 2020, , 47-60.	0.3	0
29	Modelling Innovation Paths of European Firms Using Fuzzy Balanced Scorecard. Springer Series in Reliability Engineering, 2020, , 35-46.	0.3	0
30	Electricity Storage in Internet of Renewable Energy (IoRE) Domain for Sustainable Smart Cities. , 2020, , .		3
31	Bioenergy Electricity on Internet of Renewable Energy (IoRE) Framework for Sustainable Electricity Grid Integration in the European Union (EU). , 2020, , .		0
32	The economic value of library services for children: The case of the Czech public libraries. Library and Information Science Research, 2019, 41, 100963.	1.2	11
33	Interpretable Fuzzy Rule-Based Systems for Detecting Financial Statement Fraud. IFIP Advances in Information and Communication Technology, 2019, , 425-436.	0.5	8
34	Review Spam Detection Using Word Embeddings and Deep Neural Networks. IFIP Advances in Information and Communication Technology, 2019, , 340-350.	0.5	24
35	Two-stage consumer credit risk modelling using heterogeneous ensemble learning. Decision Support Systems, 2019, 118, 33-45.	3.5	112
36	Modelling collaboration and innovation in creative industries using fuzzy set qualitative comparative analysis. Journal of Technology Transfer, 2019, 44, 981-1006.	2.5	17

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37	Forecasting performance of regional innovation systems using semantic-based genetic programming with local search optimizer. Computers and Operations Research, 2019, 106, 179-190.	2.4	18
38	Predicting Regional Credit Ratings Using Ensemble Classification with MetaCost. Advances in Intelligent Systems and Computing, 2019, , 332-342.	0.5	4
39	The Effect of Text Preprocessing Strategies on Detecting Fake Consumer Reviews. , 2019, , .		1
40	A Comparative Study of Machine Learning Methods for Detection of Fake Online Consumer Reviews. , 2019, , .		3
41	Spam filtering using integrated distribution-based balancing approach and regularized deep neural networks. Applied Intelligence, 2018, 48, 3538-3556.	3.3	67
42	Intelligent Prediction of Firm Innovation Activityâ€"The Case of Czech Smart Cities. , 2018, , 123-136.		2
43	Combining bag-of-words and sentiment features of annual reports to predict abnormal stock returns. Neural Computing and Applications, 2018, 29, 343-358.	3.2	38
44	Predicting corporate investment/non-investment grade by using interval-valued fuzzy rule-based systemsâ€"A cross-region analysis. Applied Soft Computing Journal, 2018, 62, 73-85.	4.1	19
45	Intuitionistic Fuzzy Inference System with Genetic Tuning for Predicting Financial Performance. , 2018, , .		1
46	Sustainability and Corporate Social Responsibility in the Text of Annual Reportsâ€"The Case of the IT Services Industry. Sustainability, 2018, 10, 4119.	1.6	21
47	Interval-Valued Intuitionistic Fuzzy Inference System for Supporting Corporate Financial Decisions. , 2018, , .		4
48	Integrating Sentiment Analysis and Topic Detection in Financial News for Stock Movement Prediction. , 2018, , .		2
49	Spam Filtering in Social Networks Using Regularized Deep Neural Networks with Ensemble Learning. IFIP Advances in Information and Communication Technology, 2018, , 38-49.	0.5	8
50	Effectiveness of Selected Knowledge-Based Determinants in Macroeconomics Development of EU 28 Economies. , 2018, , 69-83.		1
51	R&D Cooperation and Knowledge Spillover Effects for Sustainable Business Innovation in the Chemical Industry. Sustainability, 2018, 10, 1064.	1.6	55
52	Interval-valued intuitionistic fuzzy cognitive maps for stock index forecasting. , 2018, , .		3
53	Interval-Valued Intuitionistic Fuzzy Cognitive Maps for Supplier Selection. Smart Innovation, Systems and Technologies, 2018, , 207-217.	0.5	8
54	The Influence of Financial Sourcing and Collaboration on Innovative Company Performance: A Comparison of Czech, Slovak, Estonian, Lithuanian, Romanian, Croatian, Slovenian, and Hungarian Case Studies. Advances in Spatial Science, 2018, , 219-252.	0.3	5

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55	Interval-valued fuzzy cognitive maps with genetic learning for predicting corporate financial distress. Filomat, 2018, 32, 1657-1662.	0.2	7
56	Intuitionistic neuro-fuzzy network with evolutionary adaptation. Evolving Systems, 2017, 8, 35-47.	2.4	14
57	Snow avalanche hazard of the KrkonoÅ¡e National Park, Czech Republic. Journal of Maps, 2017, 13, 86-90.	1.0	14
58	Library usage mining in the context of alternative costs. Library Hi Tech, 2017, 35, 558-576.	3.7	8
59	Learning Interval-Valued Fuzzy Cognitive Maps with PSO Algorithm for Abnormal Stock Return Prediction. Lecture Notes in Computer Science, 2017, , 113-125.	1.0	1
60	Impact of GDP, Capital and Employment on Waste Generation-The Case of France, Germany and UK Regions. , 2017, , .		6
61	Fuzzy cognitive maps based on text analysis for supporting strategic planning. , 2017, , .		2
62	Mining corporate annual reports for intelligent detection of financial statement fraud â€“ A comparative study of machine learning methods. Knowledge-Based Systems, 2017, 128, 139-152.	4.0	163
63	Modelling innovation performance of European regions using multi-output neural networks. PLoS ONE, 2017, 12, e0185755.	1.1	29
64	Comprehensive assessment of firm financial performance using financial ratios and linguistic analysis of annual reports. Journal of International Studies, 2017, 10, 96-108.	0.7	39
65	Predicting Corporate Credit Ratings Using Content Analysis of Annual Reports â€“ A NaÃ¯ve Bayesian Network Approach. Lecture Notes in Business Information Processing, 2017, , 47-61.	0.8	5
66	Spam Filtering Using Regularized Neural Networks with Rectified Linear Units. Lecture Notes in Computer Science, 2016, , 65-75.	1.0	17
67	Interval-valued fuzzy cognitive maps for supporting business decisions. , 2016, , .		21
68	The Economic Value of Book Loans â€“ The Case of the Municipal Library of Prague. Libri, 2016, 66, .	0.5	0
69	Predicting Abnormal Bank Stock Returns Using Textual Analysis of Annual Reports â€“ a Neural Network Approach. Communications in Computer and Information Science, 2016, , 67-78.	0.4	5
70	Predicting the innovation activity of chemical firms using an ensemble of decision trees. , 2015, , .		4
71	Modelling public library value using the contingent valuation method: The case of the Municipal Library of Prague. Journal of Librarianship and Information Science, 2015, 47, 43-55.	1.6	16
72	Evaluating the economic value of a public serviceâ€"the case of the Municipal Library of Prague. Public Money and Management, 2015, 35, 145-152.	1.2	17

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73	Word Categorization of Corporate Annual Reports for Bankruptcy Prediction by Machine Learning Methods. Lecture Notes in Computer Science, 2015, , 122-130.	1.0	4
74	Novel Multi-word Lists for Investorsâ€™ Decision Making. Lecture Notes in Computer Science, 2015, , 131-139.	1.0	3
75	Modelling Knowledge Management Processes Using Fuzzy Cognitive Maps. Lecture Notes in Business Information Processing, 2015, , 41-50.	0.8	5
76	Assessing the Effect of Knowledge Management Initiatives on Stakeholder Objectives Using Fuzzy TOPSIS. Lecture Notes in Business Information Processing, 2015, , 60-70.	0.8	1
77	Effectiveness of digital library services as a basis for decision-making in public organizations. Library and Information Science Research, 2015, 37, 346-352.	1.2	19
78	Predicting Financial Distress of Banks Using Random Subspace Ensembles of Support Vector Machines. Advances in Intelligent Systems and Computing, 2015, , 131-140.	0.5	7
79	Modelling Knowledge Spillover Effects Using Moderated and Mediation Analysis â€“ The Case of Czech High-Tech Industries. Lecture Notes in Business Information Processing, 2015, , 329-341.	0.8	11
80	Intuitionistic Fuzzy Neural Network: The Case of Credit Scoring Using Text Information. Communications in Computer and Information Science, 2015, , 337-346.	0.4	17
81	Predicting Common Air Quality Index â€“ The Case of Czech Microregions. Aerosol and Air Quality Research, 2015, 15, 544-555.	0.9	21
82	Comparing corporate financial performance and qualitative information from annual reports using self-organizing maps. , 2014, , .		3
83	FORECASTING CORPORATE FINANCIAL PERFORMANCE USING SENTIMENT IN ANNUAL REPORTS FOR STAKEHOLDERSâ€™ DECISION-MAKING. Technological and Economic Development of Economy, 2014, 20, 721-738.	2.3	62
84	Defuzzification methods in intuitionistic fuzzy inference systems of Takagi-Sugeno type: The case of corporate bankruptcy prediction. , 2014, , .		24
85	Visualising components of regional innovation systems using self-organizing mapsâ€”Evidence from European regions. Technological Forecasting and Social Change, 2014, 84, 197-214.	6.2	48
86	Efficiency of knowledge bases in urban population and economic growth â€“ Evidence from European cities. Cities, 2014, 40, 11-22.	2.7	24
87	Predicting Firmsâ€™ Credit Ratings Using Ensembles of Artificial Immune Systems and Machine Learning â€“ An Over-Sampling Approach. Lecture Notes in Computer Science, 2014, , 29-38.	1.0	3
88	Feature selection in corporate credit rating prediction. Knowledge-Based Systems, 2013, 51, 72-84.	4.0	87
89	Evaluating Sentiment in Annual Reports for Financial Distress Prediction Using Neural Networks and Support Vector Machines. Communications in Computer and Information Science, 2013, , 1-10.	0.4	25
90	Prediction of Air Quality Indices by Neural Networks and Fuzzy Inference Systems â€“ The Case of Pardubice Microregion. Communications in Computer and Information Science, 2013, , 302-312.	0.4	4

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91	Adaptive Intuitionistic Fuzzy Inference Systems of Takagi-Sugeno Type for Regression Problems. International Federation for Information Processing, 2012, , 206-216.	0.4	25
92	Ozone prediction on the basis of neural networks, support vector regression and methods with uncertainty. Ecological Informatics, 2012, 12, 31-42.	2.3	40
93	COMPETITIVE ADVANTAGE ANALYSIS: A NOVEL METHOD FOR INDUSTRIAL CLUSTERS IDENTIFICATION. Journal of Business Economics and Management, 2012, 13, 344-365.	1.1	32
94	Credit rating analysis using adaptive fuzzy rule-based systems: an industry-specific approach. Central European Journal of Operations Research, 2012, 20, 421-434.	1.1	20
95	Comparison of Fuzzy Operators for IF-Inference Systems of Takagi-Sugeno Type in Ozone Prediction. International Federation for Information Processing, 2011, , 92-97.	0.4	15
96	Municipal credit rating modelling by neural networks. Decision Support Systems, 2011, 51, 108-118.	3.5	79
97	Credit rating modelling by kernel-based approaches with supervised and semi-supervised learning. Neural Computing and Applications, 2011, 20, 761-773.	3.2	28
98	IF-Inference Systems Design for Prediction of Ozone Time Series: The Case of Pardubice Micro-region. Lecture Notes in Computer Science, 2010, , 1-11.	1.0	22
99	Municipal Creditworthiness Modelling by Radial Basis Function Neural Networks and Sensitive Analysis of Their Input Parameters. Lecture Notes in Computer Science, 2009, , 505-514.	1.0	2
100	Municipal Creditworthiness Modelling by Kernel-Based Approaches with Supervised and Semi-supervised Learning. Communications in Computer and Information Science, 2009, , 35-44.	0.4	3
101	Municipal Creditworthiness Modelling by Kohonenâ€™s Self-Organizing Feature Maps and Fuzzy Logic Neural Networks. Lecture Notes in Computer Science, 2008, , 533-542.	1.0	4
102	Municipal Creditworthiness Modelling by Kohonenâ€™s Self-organizing Feature Maps and LVQ Neural Networks. Lecture Notes in Computer Science, 2008, , 52-61.	1.0	5
103	Terminological difficulties in fuzzy set theoryâ€”The case of â€œIntuitionistic Fuzzy Setsâ€• Fuzzy Sets and Systems, 2005, 156, 485-491.	1.6	282
104	Air Quality Modeling by Fuzzy Sets and IF-Sets. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 118-143.	0.3	2
105	Deep-learning model using hybrid adaptive trend estimated series for modelling and forecasting sales. Annals of Operations Research, 0, , .	2.6	15